

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/765,412	01/26/2004		Alan H. Lettington	20203-29	2213	
572	7590	11/15/2005		EXAMINER		
CLIFFORI			LE, QUE TAN			
9800B MCI SUITE 115		KOAD	ART UNIT	PAPER NUMBER		
PITTSBUR	GH, PA	15237	2878			
				DATE MAILED: 11/15/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)					
	Office Action Summany	10/765,412	· ·	LETTINGTON, ALAN H.				
	Office Action Summary	Examiner	Art Unit	(4,				
		Que T. Le	2878					
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with to	he correspondence ad	ddress				
WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE in a sions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. In period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICAT B6(a). In no event, however, may a reply by rill apply and will expire SIX (6) MONTHS cause the application to become ABAND	TION. be timely filed from the mailing date of this of ONED (35 U.S.C. § 133).					
Status								
1)□	Responsive to communication(s) filed on							
•	•	action is non-final.						
,	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
/	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
4)⊠	Claim(s) 1-11 is/are pending in the application.							
•	4a) Of the above claim(s) is/are withdrawn from consideration.							
	Claim(s) 1-11 is/are allowed.							
·	• • ——							
·	☐ Claim(s) are subject to restriction and/or election requirement.							
Applicati	on Papers	•						
	·		•					
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on <u>26 January 2004</u> is/are: a) accepted or b) objected to by the Examiner.								
10)[Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)[]	11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
•—	ınder 35 U.S.C. § 119							
	Acknowledgment is made of a claim for foreign	priority under 35 H S C & 11	9(a) (d) or (f)					
· — _	Acknowledgment is made of a claim for foreign All b) Some * c) None of:	priority under 55 0.5.0. § 11	5(a)-(u) or (i).					
۵٫۱	1.⊠ Certified copies of the priority documents	s have been received.						
	2. Certified copies of the priority documents		cation No					
	3. Copies of the certified copies of the prior			l Stage				
	application from the International Bureau	•		J				
* S	* See the attached detailed Office action for a list of the certified copies not received.							
Attaches	Wa)							
Attachmen	t(s) e of References Cited (PTO-892)	4) 🔲 Interview Sumn	nan/ (PTO:413)					
2) 🔲 Notic	e of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Ma	ail Date					
	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	5) Notice of Infom 6) Other:	nal Patent Application (PT	O-152)				
гаре	r No(s)/Mail Date	o, 🗀 otner						

Application/Control Number: 10/765,412

Art Unit: 2878

This application is in condition for allowance except for the following formal matters:

The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

The disclosure is objected to because of the following informalities:

In the specification: Each section of the present specification should be preceded by a heading (i.e. Summary of the invention, Brief description of the drawings; Detailed description of the embodiments, etc.).

In the claim: In claim 1, "radiation" should be inserted after "operable" on line for providing proper antecedent basis for the recited limitation of the claim; "view of view" on line 7 should be changed to "field of view"; the open and close "()" parentheses on lines 8-9 should be deleted; and "said scanning period" on line 18 should be changed to "said scanning periods".

Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The

Application/Control Number: 10/765,412

Art Unit: 2878

disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

Appropriate correction is required.

Prosecution on the merits is closed in accordance with the practice under *Ex* parte Quayle, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO**MONTHS from the mailing date of this letter.

Claims 1-11 are allowable over the prior art of record because the prior art fails to teach a scanning apparatus operable with radiation in the microwave, mm-wave and infrared ranges, among other features, comprising a support structure; a primary drum mounted in the support structure for rotation relative to the support structure about a central axis of the drum, wherein the drum being hollow and internally polygonal to provide a plurality of internally presented sides or facets; a radiation director for directing radiation emanating from a field of view, which is fixed with respect to the supporting structure opposing to rotating with the drum, onto the sides or facets, so that for each of a succession of line scanning periods, radiation from part of the field of view is directed onto the reflective side or facet of the primary drum to be reflected onto a further receiving assembly of a rotating faceted reflector of a secondary drum and being reflected and focused onto a radiation sensor, wherein the secondary drum is arranged to be rotatable about an axis parallel and in synchronism with the rotary axis of the

Application/Control Number: 10/765,412 Page 4

Art Unit: 2878

primary drum so that radiation from substantially all of a respective facet of the primary drum can reach the sensor via the secondary drum.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

I) Abel 4,486,662 discloses a switch-while-scan optical system having a scanning drum mirror device with an optical collection device.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Que T. Le whose telephone number is (571) 272-2438.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David P. Porta, can be reached on (571) 272-2444. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Que T. Le

Primary Examiner